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(71) Applicant (for all designated States except US): **CAVIDI TECH AB** [SE/SE]; Uppsala Science Park, S-751 83 Uppsala (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KÄLLANDER, Clas** [SE/SE]; Husbygård, Husbyborg, S-755 92 Uppsala (SE). **GRONOWITZ, Simon** [SE/SE]; Norbyvägen 51, S-752 39 Uppsala (SE). **PETTERSSON, Ingvar** [SE/SE]; Stagneliusgatan 2, S-754 22 Uppsala (SE).

(74) Agent: **NILSSON, Brita**; Stockholms Patentbyrå Zacco AB, P.O. Box 23101, S-104 35 Stockholm (SE).

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(54) Title: REVERSE TRANSCRIPTASE ASSAY KIT, USE THEREOF AND METHOD FOR ANALYSIS OF RT ACTIVITY IN BIOLOGICAL SAMPLES

(57) Abstract: A reverse transcriptase (RT) assay kit for analysis of RT activity in biological samples is described. The kit comprises solid phase bound pA and/or pA template(s) obtainable by contacting a polystyrene-based solid phase with a 1-methylimidazole-containing coupling solution, and RT-type adapted assay components selected from a buffer, divalent metal ion, chelator, polyamine, RNase inhibitor, reducing agent, salt, stabilizing agent, and detergent, and deoxynucleotide triphosphate, primer, protective agent and concentrated washing buffer, and optionally lyophilized reference enzyme(s), and further optionally lyophilized alkaline phosphatase conjugated anti-BrdU monoclonal antibody, alkaline phosphatase substrate buffer and alkaline phosphatase substrate, and written instructions for use of the assay kit. Further, a method and a use of the assay kit for the qualitative and quantitative analysis of RT activity in a biological sample, optionally followed by evaluation of the status of a RT activity related disorder or disease based on the result of the analysis of the RT activity, are disclosed.

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